

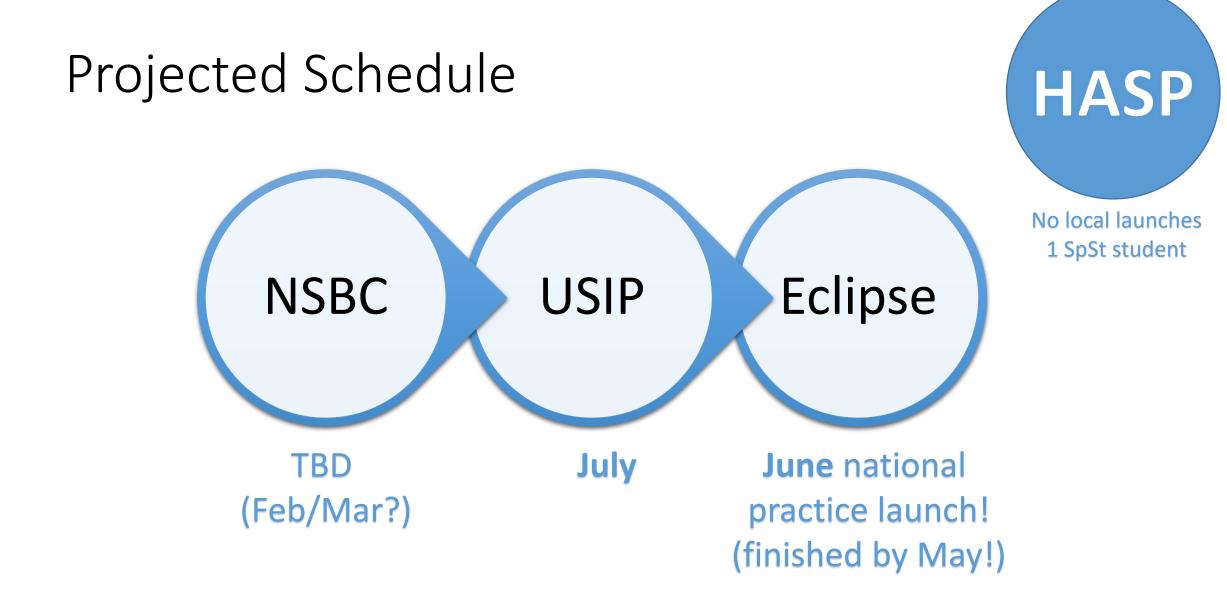


Welcome to 2017 Ballooning!

NSBC, Eclipse, USIP







NSBC

- 11 payloads from 6 towns
- Fall 2016 launch postponed due to weather
 - We are holding all team payloads and equipment
- TBD future launch
- Need to select date in advance for distributing email





USIP

PI – Jim Casler

Ron, Caitlin, Marissa

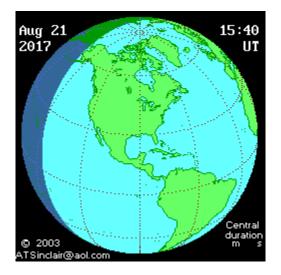
Collaborations between the EE, AtSci, and SpSt departments

Launches scheduled for July

Digital Thermosonde Instrument An Undergraduate Student Instrument Project (USIP) PM Linda Thompson | PI James Casler UND NORTH DAKOTA. Mission Objectives AUG SEP OCT Comments OVERALL Team fully formed & functioning Development of Digital Thermosonde Instrument for Quantification of Relative Cn2 Estimation Error between NWP Technical, Schedule, and Cost Performance Analysis and Thermosonde Measurements No technical issues for eseen at present Technical Description G G No schedule issues foreseen at present Schedule Thermosonde instrument to be designed and constructed to characterize optical turbulence in Earth atmosphere through No budget issues foreseen at present G G Cost measurements of vertical profile of refractive index structure. Instrument will be payload for hand-held balloon launch. Accomplishments this Month Task Plan Actual Internal subcontracts completed. Project Kick-Off 10/05/16 10/05/16 Undergraduate engineering students identified. All team members have now been identified and engaged. Dec16 **Requirements Review** Science objectives identified and clarified for team. Feb 17 Preliminary Design Review Requirements generation exercise initiated Critical Design Review Apr 17 Planned for next Month Range Readiness Review N/A Requirements review preparation Jun 17 Flight Readiness Review Detailed development schedule generation completed InitialLaunch/Flight Capability Jul 17 Project leadership & administration orientation & training initiated

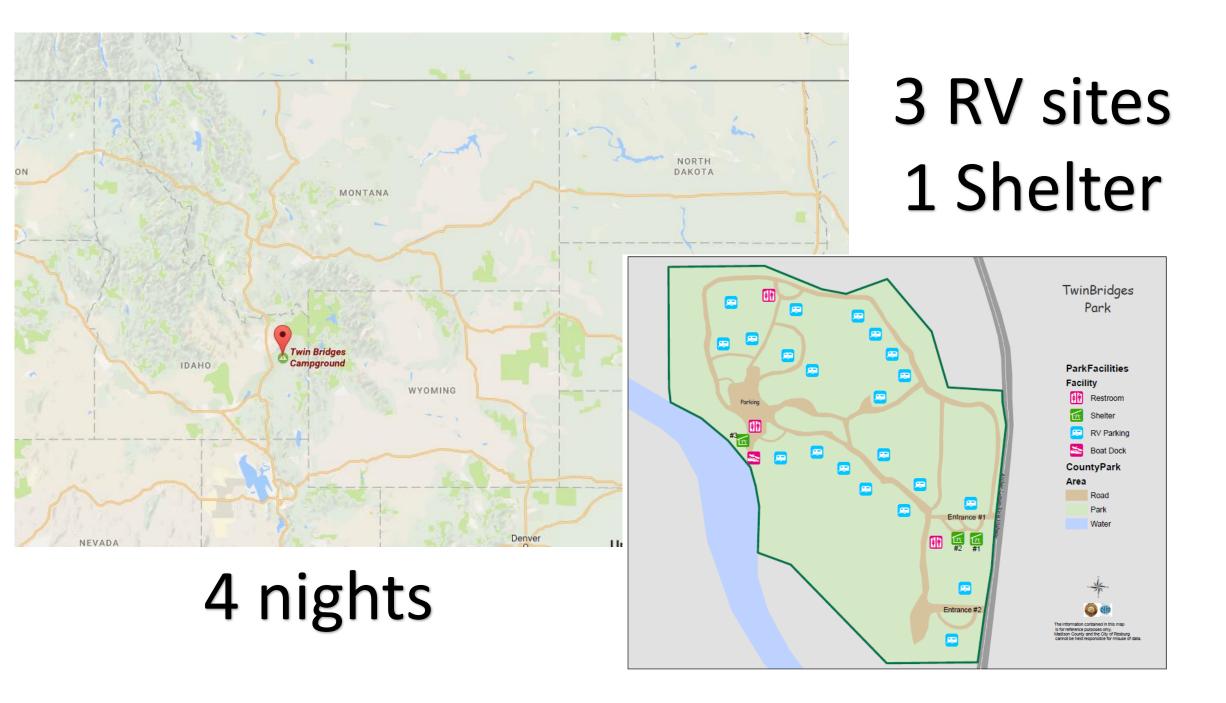
Eclipse

- August 21, 2017, 11:34 am MDT (launch time 10:14 am)
- Departing on August 17 (stay in TRNP)
- Idaho: Aug 18-22



- Lots of preparation required throughout the semester we can do it!
- Mike and Denise will orchestrate operations, but this is a team effort ^(C)
- We are lucky to have great teamwork and ballooning experience
- We need a headcount of students *travelling* with us to the launch. All are invited; all are encouraged to help this semester
- Campus testing, tethered launches, remote set up, practice fill, NSBC practice, etc.
- *Mock scenarios*! Tight schedules, interchangeable roles, "the sun won't wait for us!"





To do:

- RFD modem Mike as lead
- Job assignments
- Schedule coordinators meeting
- Technical sessions after group meeting?
- Practice!!

	Payload Team			
Ground Station	Video	RFD (images)	Cut-down	Safety and Transportation
Power?				Air Traffic on Eclipse Day
				Launch Simulations
"what does this team need?"	"what happens if it's not working after we launch?"	"how are we sampling images from the ground?"	Who's emailing the site?	"what paperwork should we travel with?"

(just an example)

Other

- 1/19/17 noon teleconference
- Ping-pong ball payload
 - Reaching out (Kerry Hartman Nueta Hidatsa Sahnish College)
- Caitlin updates
- Other discussion points
 - t-shirts?

Action Items

- Send Shane requested topics for the technical telecom
- Send Shane possible date for individual team calls
- Report to Shane your Milestones 1-6 (excluding Milestone 3)
- Send Shane your team website or blog to be added to the eclipse ballooning page
- Invite students to join the Eclipse Ballooning Project Student Communications Google Group here:

https://groups.google.com/forum/?hl=en#!for um/sgebpsc

• Telecom 1/12/17, 11 AM Mountain Standard Time